U.S. ENVIRONMENTAL PROTECTION AGENCY

Air Sampling Report

Location Name/ID	V06
City, State	Buras, Louisiana
Latitude	29.355
Longitude	-89.526389

SCREENING LEVELS FOR ONE YEAR AVERAGE EXPOSURE TO VOLATILE ORGANIC COMPOUNDS (VOCs) COMMONLY FOUND IN CRUDE OIL		
Contaminant concentration, 1-year average. Measured in micrograms/cubic meter (µg/m3)	Health Concern?	Action
Benzene: 20 µg/m3 and below Toluene: 5000 µg/m3 and below Ethylbenzene: 3000 µg/m3 and below Xylene: 3000 µg/m3 and below	Low concern for increased risk of health problems for measurements in this range.	Public: No action suggested. EPA will continue to evaluate sample results.
Benzene: Above 20 µg/m3 Toluene: Above 5000 µg/m3 Ethylbenzene: Above 3000 µg/m3 Xylene: Above 3000 µg/m3	Level of health concern depends on how much above these levels the measurement is and for how long. Concentrations slightly above these levels for short durations do not generally pose health concerns. There may be some health concern if people are exposed to these levels continuously for a year or more.	Public: No immediate action suggested. EPA will continue to monitor the levels closely. Additional investigation may be needed, e.g., reviewing information about the detected chemical, and where the higher concentrations may be coming from. Additional monitoring may be needed.
If air pollution reaches levels requiring immediate action, you will be notified via local news media.		

Volatile Organic Compounds
Chemical Results in µg/m3

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
08/21/2010	1.1	1.6	1.6	1.3
08/20/2010	.5	.67	.67	.58
08/19/2010	.6	.81	.81	.7
08/18/2010	.63	.85	.85	1.8
08/17/2010	.6	.81	.81	.7
08/16/2010	.54	.73	.73	.63
08/15/2010	.58	.79	.79	.69
08/14/2010	.61	.83	.83	.72

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
08/12/2010	.5	.69	.69	.6
08/11/2010	.54	.73	.73	.63
08/10/2010	.54	.73	.73	.63
08/09/2010	.5	.69	.69	.6
08/08/2010	.54	.73	.73	.63
08/07/2010	.58	.79	.79	.69
08/06/2010	1.2	1.6	1.6	1.4
08/05/2010	5.3	3.2	3.9	2.2
08/04/2010	.54	.73	.73	.63
08/03/2010	.73	.99	.99	.86
08/02/2010	.59	.78	.78	.705
08/01/2010	.59	.8	.8	.69
07/31/2010	.68	.92	.92	.8
07/30/2010	.58	.79	.79	2.5
07/29/2010	.68	.92	.92	.8
07/28/2010	1	1.4	1.4	1.2
07/27/2010	.86	4.7	.83	.72
07/24/2010	.57	.78	.78	.67
07/23/2010	.63	.85	.85	.74

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
07/22/2010	1.6	2.2	2.2	1.9
07/21/2010	.51	.7	.7	.61
07/20/2010	.86	1.2	1.2	1
07/19/2010	.58	.79	.79	.69
07/18/2010	.54	.73	.73	.64
07/17/2010	.5	.69	.69	.6
07/16/2010	.71	.97	.97	.84
07/15/2010	.57	.77	.77	.67
07/14/2010	1.4	1.9	1.9	1.7
07/13/2010	.63	.85	.85	.74
07/12/2010	.56	.76	.76	.66
07/11/2010	.52	.71	.71	.62
07/10/2010	.56	.76	.76	.66
07/09/2010	1.6	2.2	2.2	1.9
07/08/2010	.61	.83	.83	.72
07/07/2010	.54	.73	.73	.63
07/06/2010	1.8	1.7	2.7	18
07/05/2010	.57	.78	.78	.67
07/04/2010	.55	.74	.74	.64

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
07/03/2010	.51	.7	.7	.61
07/02/2010	.54	.73	.73	.76
07/01/2010	.5	.69	.69	.6
06/30/2010	.55	.74	.74	.66
06/29/2010	.54	.74	.74	.64
06/28/2010	.55	.74	.74	.64
06/27/2010	.6	11	15	20
06/26/2010	.5	.69	.69	.6
06/25/2010	.58	.79	.79	.99
06/24/2010	.55	.74	.74	.78
06/23/2010	1.7	2.4	2.4	2
06/22/2010	.48	.65	.65	.56
06/21/2010	.6	.81	.81	.7
06/20/2010	.66	.89	.89	.78
06/19/2010	.54	.73	.73	.63
06/18/2010	.55	.75	.75	.65
06/17/2010	.55	.74	.74	.64
06/16/2010	.57	.78	.78	.67
06/15/2010	.56	.76	.76	.66

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
06/14/2010	.55	.74	.74	.64
06/13/2010	.56	.76	.76	.66
06/12/2010	.51	.7	.7	.61
06/11/2010	.55	.75	.75	.98
06/10/2010	.54	.73	.73	.63

U.S. ENVIRONMENTAL PROTECTION AGENCY

Air Sampling Report

Location Name/ID	V06
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Latitude	29.355
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Semi Volatile Organic Compounds
Chemical Results in µg/m3

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO[A]PYRENE	BENZO[K]FLUORANTHENE	BENZ[A]ANTHRACENE	CHRYSENE	DIBENZ[A,H]ANTHRACENE	INDENO[1,2,3-CD]PYRENE	NAPHTHALENE
08/22/2010	.036	.036	.036	.036	.036	.036	.036	.0053
08/20/2010	.032	.032	.032	.032	.032	.032	.032	.004
08/19/2010	.034	.034	.034	.034	.034	.034	.034	.0026
08/18/2010	.034	.034	.034	.034	.034	.034	.034	.0021
08/17/2010	.034	.034	.034	.034	.034	.034	.034	.0039
08/16/2010	.036	.036	.036	.036	.036	.036	.036	.0073
08/15/2010	.036	.036	.036	.036	.036	.036	.036	.0053
08/14/2010	.035	.035	.035	.035	.035	.035	.035	.0043

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO[A]PYRENE	BENZO[K]FLUORANTHENE	BENZ[A]ANTHRACENE	CHRYSENE	DIBENZ[A,H]ANTHRACENE	INDENO[1,2,3-CD]PYRENE	NAPHTHALENE
08/13/2010	.032	.032	.032	.032	.032	.032	.032	.0051
08/11/2010	.035	.035	.035	.035	.035	.035	.035	.0035
08/10/2010	.033	.033	.033	.033	.033	.033	.033	.0056
08/09/2010	.034	.034	.034	.034	.034	.034	.034	.0071
08/08/2010	.036	.036	.036	.036	.036	.036	.036	.0042
08/07/2010	.034	.034	.034	.034	.034	.034	.034	.0077
08/06/2010	.036	.036	.036	.036	.036	.036	.036	.0054
08/05/2010	.035	.035	.035	.035	.035	.035	.035	.0079
08/04/2010	.036	.036	.036	.036	.036	.036	.036	.0044
08/03/2010	.035	.035	.035	.035	.035	.035	.035	.0043
08/02/2010	.037	.037	.037	.037	.037	.037	.037	.013
07/31/2010	.033	.033	.033	.033	.033	.033	.033	.01
07/30/2010	.032	.032	.032	.032	.032	.032	.032	.0071
07/29/2010	.032	.032	.032	.032	.032	.032	.032	.0071
07/28/2010	.032	.032	.032	.032	.032	.032	.032	.013
07/27/2010	.034	.034	.034	.034	.034	.034	.034	.0038

U.S. ENVIRONMENTAL PROTECTION AGENCY

Air Sampling Report

Location Name/ID	V06
City, State	Buras, Louisiana
Latitude	29.355
Longitude	-89.526389

SCREENING LEVELS FOR ONE-YEAR AVERAGE EXPOSURE TO POLYCYCLIC AROMATIC COMPOUNDS (PAHS) COMMONLY FOUND IN CRUDE OIL		
Contaminant concentration, 1-year average. Measured in micrograms /cubic meter (µg/m3)	Health Concern?	Action
Benzene: 20 µg/m3 and below Benzo(a)pyrene: .64 µg/m3 and below ** Benzo(a)anthracene: 6.4 µg/m3 and below Benzo(b) fluoranthene: 6.4 µg/m3 and below Benzo(k) fluoranthene: 6.4 µg/m3 and below Chrysene: 64 µg/m3 and below Dibenz(a,h) anthracene: .58 µg/m3 and below Indeno(1,2,3-c,d) pyrene: 6.4 µg/m3 and below Naphthalene: 30 µg/m3 and below	Low concern for increased risk of health problems for measurements in this range.	Public: No action suggested. EPA will continue to evaluate sample results.
Benzene: Above 20 µg/m3 Benzo(a)pyrene: Above .64 µg/m3 ** Benzo(a)anthracene: Above 6.4 µg/m3 Benzo(b) fluoranthene: Above 6.4 µg/m3 Benzo(k) fluoranthene: Above 6.4 µg/m3 Chrysene: Above 64 µg/m3 Dibenz(a,h) anthracene: Above .58 µg/m3 Indeno(1,2,3-c,d) pyrene: Above 6.4 µg/m3 Naphthalene: Above 30 µg/m3	Level of health concern depends on how much above these levels the measurement is and for how long. Concentrations slightly above these levels for short durations do not generally pose health concerns. There may be some health concern if people are exposed to these levels continuously for a year or more.	Public: No immediate action suggested. EPA will continue to monitor the levels closely. Additional investigation may be needed, e.g., reviewing information about the detected chemical, and where the higher concentrations may be coming from. Additional monitoring may be needed.
If air pollution reaches levels requiring immediate action, you will be notified via local news media.		

Polycyclic Aromatic Hydrocarbons
Chemical Results in µg/m3

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO[A]PYRENE	BENZO[K]FLUORANTHENE	BENZ[A]ANTHRACENE	CHRYSENE	DIBENZ[A,H]ANTHRACENE	INDENO[1,2,3-CD]PYRENE	NAPHTHALENE
08/22/2010	.036	.036	.036	.036	.036	.036	.036	.0053
08/20/2010	.032	.032	.032	.032	.032	.032	.032	.004
08/19/2010	.034	.034	.034	.034	.034	.034	.034	.0026
08/18/2010	.034	.034	.034	.034	.034	.034	.034	.0021
08/17/2010	.034	.034	.034	.034	.034	.034	.034	.0039
08/16/2010	.036	.036	.036	.036	.036	.036	.036	.0073

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO[A]PYRENE	BENZO[K]FLUORANTHENE	BENZ[A]ANTHRACENE	CHRYSENE	DIBENZ[A,H]ANTHRACENE	INDENO[1,2,3-CD]PYRENE	NAPHTHALENE
08/15/2010	.036	.036	.036	.036	.036	.036	.036	.0053
08/14/2010	.035	.035	.035	.035	.035	.035	.035	.0043
08/13/2010	.032	.032	.032	.032	.032	.032	.032	.0051
08/11/2010	.035	.035	.035	.035	.035	.035	.035	.0035
08/10/2010	.033	.033	.033	.033	.033	.033	.033	.0056
08/09/2010	.034	.034	.034	.034	.034	.034	.034	.0071
08/08/2010	.036	.036	.036	.036	.036	.036	.036	.0042
08/07/2010	.034	.034	.034	.034	.034	.034	.034	.0077
08/06/2010	.036	.036	.036	.036	.036	.036	.036	.0054
08/05/2010	.035	.035	.035	.035	.035	.035	.035	.0079
08/04/2010	.036	.036	.036	.036	.036	.036	.036	.0044
08/03/2010	.035	.035	.035	.035	.035	.035	.035	.0043
08/02/2010	.037	.037	.037	.037	.037	.037	.037	.013
07/31/2010	.033	.033	.033	.033	.033	.033	.033	.01
07/30/2010	.032	.032	.032	.032	.032	.032	.032	.0071
07/29/2010	.032	.032	.032	.032	.032	.032	.032	.0071
07/28/2010	.032	.032	.032	.032	.032	.032	.032	.013
07/27/2010	.034	.034	.034	.034	.034	.034	.034	.0038

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Air Sampling Report

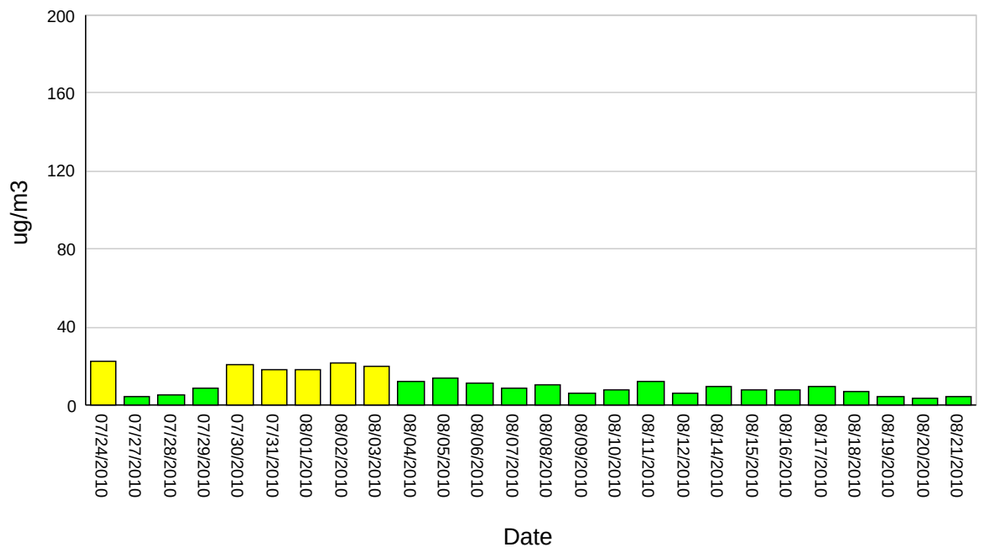
Location Name/ID	V06
City, State	Buras, Louisiana
Latitude	29.355
Longitude	-89.526389

Localized Monitoring PM2.5 Daily Averages	Index Value	Air Quality Index Levels of Health Concern	Cautionary Statements
0-15.4	0 to 50	Good	None
15.5-35.4	51 to 100	Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
35.5-65.4	101 to 150	Unhealthy for Sensitive Groups	People with heart or lung disease, older adults, and children should reduce prolonged or heavy exertion.
65.5-150.4	151 to 200	Unhealthy	People with heart or lung disease, older adults, and children should avoid prolonged or heavy exertion. Everyone else should reduce prolonged or heavy exertion.
150.5-250.4	201 to 300	Very Unhealthy	People with heart or lung disease, older adults, and children should avoid all physical activity outdoors. Everyone else should avoid prolonged or heavy exertion.
250.5-500.4	301 to 500	Hazardous	People with heart or lung disease, older adults, and children should remain indoors and keep activity levels low. Everyone else should avoid all physical activity outdoors.

Particulates

Chemical Results in µg/m3

DATE RANGE	Particulate Matter 2.5 microns
08/21/2010	4.15617
08/20/2010	3.633705
08/19/2010	4.57
08/18/2010	7.29
08/17/2010	9.239415
08/16/2010	7.92453



DATE RANGE	Particulate Matter 2.5 microns
08/15/2010	7.54085
08/14/2010	9.72339
08/12/2010	6.03773585
08/11/2010	12.2748
08/10/2010	7.33138
08/09/2010	5.95138
08/08/2010	10.54065
08/07/2010	8.96523
08/06/2010	11.6045
08/05/2010	13.5582565
08/04/2010	12.4422
08/03/2010	19.6226
08/02/2010	21.11885
08/01/2010	18.4409
07/31/2010	18.1475
07/30/2010	20.6116
07/29/2010	8.721174
07/28/2010	4.98743
07/27/2010	3.91249

DATE RANGE	Particulate Matter 2.5 microns
07/24/2010	22.3717
07/23/2010	21.1144
07/22/2010	15.58441558
07/21/2010	14.7108
07/20/2010	11.4837
07/19/2010	12.78
07/18/2010	10.22
07/17/2010	9.22
07/16/2010	19.78
07/15/2010	14.46
07/14/2010	20.746
07/13/2010	13.1182
07/12/2010	13.71
07/11/2010	6.58
07/10/2010	8.93
07/09/2010	13.28
07/08/2010	12.53
07/07/2010	17.18
07/06/2010	10.4315

DATE RANGE	Particulate Matter 2.5 microns
07/05/2010	6.20025
07/04/2010	8.17267
07/03/2010	11.99
07/02/2010	10.39
07/01/2010	3.73
06/30/2010	9.89
06/29/2010	10.9342
06/28/2010	11.4417
06/27/2010	10.1048
06/26/2010	9.55975
06/25/2010	8.67561
06/24/2010	6.7
06/23/2010	5.78374
06/22/2010	15.7101
06/21/2010	14.4114
06/20/2010	10.222
06/19/2010	10.9408
06/18/2010	11.1903
06/17/2010	13.32481907

DATE RANGE	Particulate Matter 2.5 microns
06/16/2010	14.4593
06/15/2010	17.8886
06/14/2010	15.88
06/13/2010	15.33
06/12/2010	12.34
06/11/2010	12.62
06/10/2010	22.83